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Snow Surveyors Climbing to a Snow Course

FEDERAL-STATE COOPERATIVE SNOW SURVEYS AND IRRIGATION WATER FORECASTS

FOR OREGON

MARCH 1, 1946

Вy

U. S. DETANTALES OF AGRICULTURE Division of Irrigation, Soil Conservation Serv United States Department of Agriculture and

Oregon Agricultural Experiment Station

Data included in this report were obtained by the agencies named above in cooperation with the Oregon State Engineer, U. S. Forest Service, National Park Service and other Federal, State and local organizations.



SOL CONSERVATION SERVICE JANUARY 1,1945 7-L-8563

INDEX TO SNOW COURSES

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March 1, 1946

WATER SUPPLY OUTLOOK

Oregon's 1946 water supply outlook continues to be very good. Practically all areas of the State are now assured of adequate water supplies and there is a probability that runoff in some areas will very nearly equal the record flows of 1943.

Mountain snow cover continues considerably above average on most Oregon snow courses despite subnormal procipitation during February. Snow cover above 5,000 feet is about 72 percent greater than that of last year and approximately 42 percent greater than average. Below 5,000 feet the snow cover is 352 percent greater than that of last year and 78 percent greater than average.

Watershed soils are generally well wetted and for the most part unfrozen beneath the snow-pack. These conditions are very favorable to a sustained runoff.

Total water stored in principal Oregon reservoirs is 6 percent greater than the 10 year average, 10 percent greater than of similar date last year, 2 percent greater than in 1944, and 8 percent less than in 1943 which was a bountiful year.

Total storage now averages 60 percent of capacity and the number of reservoirs half full or better is greater than last year, but less than in 1944 and 1943.

Precipitation accumulated in Oregon valleys since October 1 is 114 percent of normal as compared with 86 percent of normal for the same period in 1945.

Preliminary forecasts of April-September stream flow, based on existing mountain snow cover, and on the assumption that snow cover increase during March will be average, indicate adequate water supplies for practically all areas of the State. Final 1946 snow surveys and forecasts will be made on the first of April.

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The following preliminary runoff forecasts are based on present mountain snow cover and on the assumption that average increase of snow cover will occur during March. Greater or less than average increase in mountain snow cover during March will correspondingly modify these estimates:

		Expectancy	as of	, Stream Flow Mar. 1, 1946
Area	Stream	As % of 1929-	_	As % of Last Year
Northcentral	W. Fk. Hood River near Dee (Station 438)	129	c	a
Umatilla- Walla Walla	S. Fk. Walla Walla River near Milton (214) Umatilla R. at Pendleton (223)	128 144	ė .	& &
Northeastern	Grande Ronde R. nr. LaGrande (1816) East Fk. Wallowa R. (1822 + 1823) Hurricane Cr. near Joseph (1814) Lostine R. near Lostine (1810) Bear Creek near Wallowa (1815)	136 140 134 128 110		a a a a
Eastern	N.Fk. Malheur R. at Beulah (139) Malheur R. near Drewsey (1320) Strawberry Cr.nr.Prairie City (243	132 126 34) 116	đ	a a a
Harney Basin	Silvies River near Burns (966)	155		a
Central	Ochoco Reservoir Net Inflow	173		a
Southcentral	Deep Creek above Adel (9127)	121	b	a
Klamath Basin	Upper Klamath Lake Net Inflow	190		181
Southern	Rogue River above Prospect (722) Fourmile Lake Net Inflow N. Fk. Little Butte Cr. below	150 128		a a
	Fish Lake (Natural flow) (7230)			a
	Hyatt Prairie Reservoir Net Inflow			a
	N. Umpqua R. below Lake Cr. (7419) N. Umpqua R. at Toketee Falls (741)			a a
	Clearwater R. above Trap Cr. (7420			a
Willamette	McKenzie R. at McKenzie Bridge (53	•		a
Valley	McKenzie R. near Vida (535)	126		a

a - 1945 Discharge record not available

b - April-June rather than April-Sept.

c - 1933 - 44

d - 1931-44

e - 1932-44

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Snow-stored water now present from 2,000-5,000 feet:	1	As percent of that present one year ago 452	1	of average 178
	124	172 As percent	199 As percent	142 As percent of average
Snow-stored water now present above 5,000 feet:	As percent of that present one month ago	As percent of that present one year ago	As percent of that present two years ago	As percent of average

the comparisons, is greater than on about March 1 of 1944. Snow water content on 86 percent of all measured courses Snow water content on 89 percent of all measured courses is greater than at this time in 1945, and in 89 percent of is greater than average.

Given below is a tabulation showing inches snow-stored water for the March 1 record period on thirteen scattered snow courses.

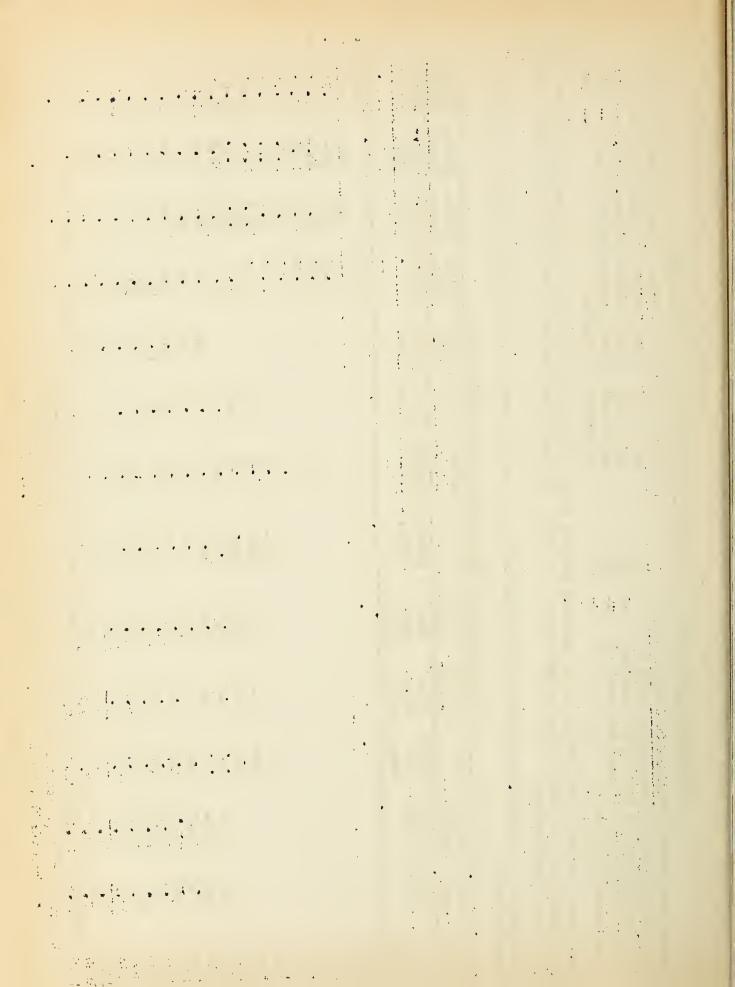
	Rogue	Umpqua	Diam.	Lako		12.6*	2 00*	7.8*	15.4*	27.0*	2.4*	8 • 6 *	17.6*	21.2	18.2	18.2	9•6	12.8	14.6	32.9	10.6	8.4	31.8
	Klam.	Rogue	Annio	Sprg.			22.7	22.1	N.R.	N.R.	N.R.	N.R.	52.1	37.8	41.6	34.0	38.0	39 • 9	30.0	46.3	21.7	24.5	63 .2
	Klam	Rogue	Billie	Creek			6.4	12.8	32.2	30.9	N.R.	N.R.	36.3	27 .4	18.4	27.8	10.8	13.5	18.0	31.9	15.5	15.2	29.9
	Klam	Desch.	Chemult			5.8*	1.4*	7.8*	11.9*	12.0*	*	7 •6 *	12.5*	0.11	12.5	8.7	8.0	8•4	10.2	21.4	6.1	5.1	17,6
March 1	Walla	Walla	To11-	gato												34.6	18.1	15.6	14.1	31.9	19.9	15 .3	35 %5
of About	Harney		Izco	Sum.									11.0	8.3	6.7	9.1	5.2	7.7	8•8	12 a8	6,1	5 °8	1.46
38	Owyhee		Granite	Peak					16.5	7.4	7.2	11.8	13.5	7.9	13.5	12.8	15.0	15.7	13 • 7	18.9	7 04	1104	13.0
Water Content of Snow (Inches)			Ochoco	Mdws.							0	N.R.	N.R.	13.6	10.0	9.6	8.0	හ. භ	11.6	14.8	6,1	8,2	14.6
nt of Sr	bhn Day- Crooked	Malheur	Blue (Mtn.	prgs.									15.3	0	6.	ಬಿ	0	8	0.	4.	40,	9,61
onto			BJ	音	Spr							•	18	15	19	13	2	14	27	23	2	2	19
Water	John Bay	Burnt	Blue	Mtn.	Summit								10.5	9.3	6.7	800	5.4	8.1	5,0	13.4	4.6	7.3	12,3
	Grande Powder John Bay-		Eilert-	son	Mdws •							7.3	N.R.	N.R.	11.5	15.1	13.2	10.6	9.1	17.8	5,2	7.0	15,6
	Grande	Ronde	Moss	Sprg.											19.6	N.R.	18.0	16.9	13.9	32.1	13.5	16.8	24.1
	Clack-	amas	Peavine	Ridge											13.0	19.2	7.6	£ €	8•9	28.62	7.3	6.8	19.5
	Stream		Snow	Course	Year	1929	1930	1931	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946

3

Underscored is greatest March 1 water content of snow of record period for each snow course shown.

From COPCO Water Stations

N.R. No Report



STATUS OF SNOW COVER AS OF MARCH FIRST Summary of Snow Survey Data by Watersheds as of About March First

		Aver	age Wa	ter De	pth in		1946	Snow W	ater
	Number	Sn	ow Cov	er (In	ches)	Yrs.	Depth	ı (Incl	hes)
	of Snow			- 11	Avg.Past	of		Percen	
Stream	Courses			_	Yrs.of	Rec-		that i	
Basin	Averaged	1946	1945	1944	Record	ord	1945	1944	Avg.
Owyhee River	13	8.4	8•8				95		
	11	8.6		6.2				139	
	13	8•4			8•5	(6-15)			99
Malheur River	6	12.0	5.9				203		
	5	12.2		5.8				210	
	6	12.0			8.3	(1-10)			144
Burnt River	4	13.2	8.2		····		161		****
	2	12.2	9 3	5.2				235	
	4	13.2			7.5	(1-10)			176
Powder River	2	13.8	8.2		c		168		
	3	19.8		8.0				248	
	3	19.8			13.4	(6-9)			148
Grande Ronde River	6	25.3	13.4				189		
	7	26.2		12.9				203	
	7	26.2			16.0	(2-9)			164
Walla Walla River	1	35.5	15.3				232		
	1	35.5		19.9				178	
	1	35.5			21.4	(7)			166
Umatilla River	4	19.3	9.4				205		
	4	19.3		10.1				191	
	4	19.3			11.9	(7-9)			162
Willow Creek	1	14.8	9.1				163		
	1	14.8		8.0				185	
	1	14.8			9 • 7	(5)			152
John Day River	8	13.7	7.6				180		
·	8	13.7		6.2				221	
	8	13.7			9.4	(2-10)			146
Deschutes River	3	28.1	10.0	······································			281		
	3	28.1		10.6				265	
	3	28.1			13.8	(2-5)			204
Crooked River	3	10.1	4.8				210		
	3	10.1		3.9				259	
	3	10.1			6.3	(3-10)			160
Sandy River	3	34.6	12.4				279		
	3	34.6	▼か 4.エ	13.8			~13	251	
	3	34.6			19.7	(4-8)			176
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Stream	Number of Snow Courses	Sn.	OM COA	er (In	ones; Avg.Past Yrs.of		as	Inc. Percenthat i	t
Basin	Averaged	1946	1945	1944	Record		1945	1944	Avg.
Clackamas River	1	19.5	6.8				287		
	2 2	17.6		5 • 7		10.01		309	75.0
Willamette River		17.6	E 7		11.1	(6-8)	502	-	158
WILLIAMS CCS VIVEL	5 5	28.6 28.6	5.7	9.0			302	318	
	5	28.6	1		13.2	(4-7)			217
Chewaucan River	1	9.6	5.9				163		
	1	9.6		4.2		/ \		228	200
	1	9.6	~ }		6,3	(7)	-		152
Harney Basin	5 7	10•2 8•5	5 •6	4.9			182	173	
	7	8.5		72 € 3	6 • 6	(2-11)		TIO	129
Silver Lake Basin	1	4.1	0.0				****		
DIIVOI MIRO DABIII	ì	4.1	0.00	2.7				152	•
	1	4.1		, , , , , ,	3,3	(6)			124
Warner Lake	1	130	8•8				148		
	1	13.0	0.10	7.6				171	
	1	13.0			8.2	(2)			158
Guano Lake	1	3.1	3.3				94		
	2 2	5•4 5•4		3.9	6.0	(5=6)		138	90
77 70.6					0.00	(3-0)			30
Umpqua River	4	19.0 19.0	3.7	7.2			514	264	
	4	19.0		1 80	9.5	(7-9)		204	200
Upper Rogue River	11	22.3	8.1				275		****
off. and and and and	10	17.7	002	8•8				201	
	11	22.3			14.7	(2-14)			152
Applegate River	2	· 17.6	7.8				226		
	2 2	17.6		13.2	34.0	(4-8)		133	118
		17.6	·	************	14.9	(4-8)			17.0
Illinois River	2	12.7	4.0				318	107	
	2 2	12.7 12.7		8 •3	10.5	(4-7)		153	121
Klamath Lake Basin		18.3	7.0				261		
	15*	15.6		7.7				202	
	18*	17.6			11.4	(2-19)			154
Goose Lake Basin	4*	10.4	7.0				148		
	3*	11.0		6.2		/a ==>		177	
	4*	10.4			7.3	(2-15)			142

^{*} Including Copco water measurement stations.

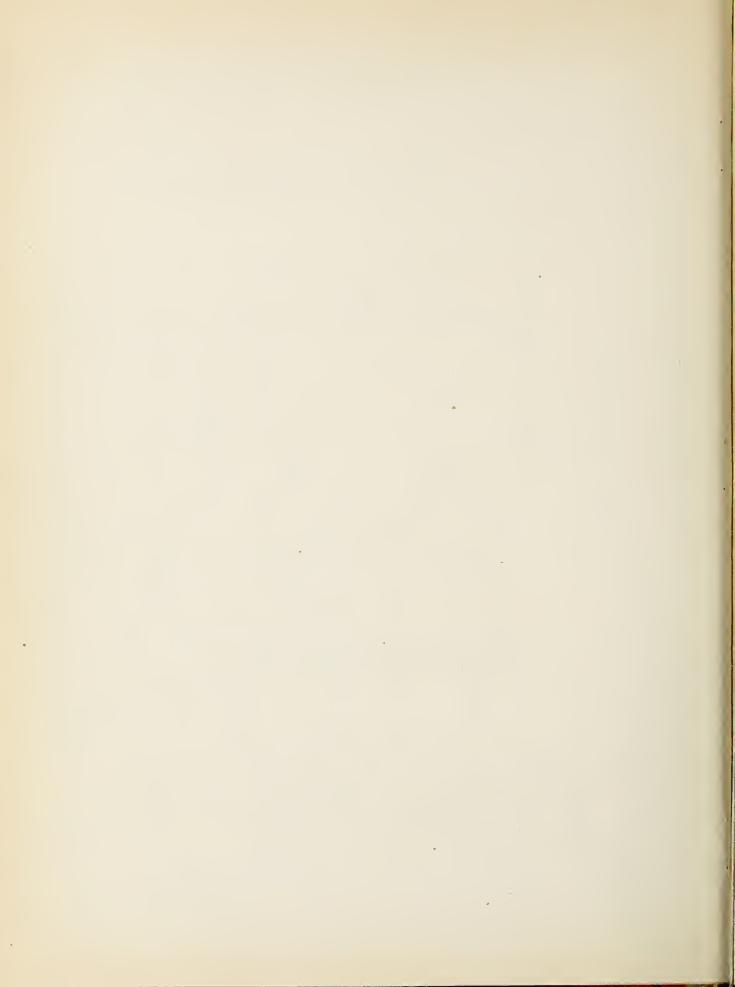
STATUS OF RESERVOIR STORAGE AS OF MARCH FIRST

In the following tabulation, water storage in acre feet in important Oregon reservoirs as of about March 1, 1946, is compared with storage as of approximately the same date in 1945, 1944, 1943, and with 10 year average, 1936-45.

				Acre	Feet in Storage		
Storage	Stream	Capacity	About	About	About	About	10-yr.Avg.
Reservoir	Basin	Acre Ft.	3-1-46	3-1-45	3-1-44	3-1-43	1936-45
Agency Valley	Malheur	000,09	42,190a	50,250	43,320	19,280	36,985
Clear Lako	Lost River	440,240b	244,100b	279,730b	294,020b	260,680 ^b	205,047 ^b
Cold Springs	Umatilla	50,000		28,100	39,250	46,750	34,675
Cottage Grove	Willamette	33,090b	12,000b,f	10,000b	7,863b	11,090 ^b	0,651b,h
Cottonwood	Goose Lake	4,160	0	1,420	.300€	0	. 6041
Crane Prairie	Deschutes	50,000	39,660	27,120	46,150	39,330	33,157J
Crescent Lake	Deschutes	80,000	32,0.10a	33,330	54;160	34,220	34,269
Drew Creek	Goose Lake	62,500	46,271	41,000	38,760	33,000a,c	37,830
Emigrant Gap	Rogue	8,200	8,200	4,828	2,684	7,094	5,814
Fern Ridge	Willamette	101,200 ^b	31,000°, f	31,000 ^b	15 730 ^b	56,040°	32,972 ^b ,K
Fish Lake	Rogue	7.,720	3,935	3,719	6,972	5,110	4,710
Fourmile Lake	Klamathd	14;000	5,010a	7,896	11,770a	4,137	7,7003
Gerber	Klamath	. 94, 000b	23,170b	52,200b	45,220b	21,740b	42,250b
Hyatt Prairie	Klamathd	16,000	2,885a	2,970	080 67	9,822a	6,102
McKay	Umatilla	74,000	44,470	39,530	39,130	62,050	35,497
Ochoco	Crooked	46,000	32,030a	4,500a	22,830	38,750	13,738
Owyhee	Owyhee	716,000 ^b	601,710 ^b	501,240 ^b	497,150 ^b	ofq082,909	542,386 ^b
Rock Creek	Deschutes	1,350	1,350	-1	. 200	. 1	- 8
Unity	Burnt	25,260	11,810	11,700	7,058	7,460	9,3821
Upper Klamath	Klamath	583,9008	347,0208	302,6608	355; 600E	414,600E	405,2768
Wallowa Lake	Wallowa	40,920	11,630	10, 690	31,220	25,320	19,745
Warmsprings	Malheur	190,000	87,010a	65,550	116,140	160,400	95,550
Wickiup	Deschutes	180,000	55,500	54,280	0	4,296	19,525 ⁿ
a - Estimated			e - Appro	Approximate		r L	1943-45
b - Available for use	for use		f - Stora	Storage space reserved for flood	ved for flood	ात	Excl. 1942
c - Water being	Water being by-passed to provide	provide	control	durin	during high water season	ا I	1937-45 1942-45
d - By ditch to	By ditch to Rogue River side	ide		2979		1 t	1938-45
•)						

SOIL CONSERVATION SERVICE

S OEPT OF AGRICULTURE



STATUS OF VALLEY PRECIPITATION AS OF OCTOBER 1 TO DATE

Month	Oct.	• - C.L.	Nov.	•	Dec	•	Jan	J.	Er O	Fcb.	Period	ođ
Section	ρι	Q .	Д	Q	Д	D	Д	Ð	Д	Q .	A	Q
S.E.	0.70	-0.01	1.31	+0.14	2.04	+1.01	0.8	-0.5	0.7	-0.3	5.55	+0•34
S.C.	1.24	+0.27	2.53	+0.51	2.93	+0.91	1.7	Z•0-	1.1	₽•0-	9.50	+1.09
N.C.	96*0	90*0+	2.96	+1.16	3.48	+1.78	1.6	+0.2	9•0	-0.5	09*6	+2.70
Col. Riv.	99.0	-0.34	2.38	69*0+	2.64	+0.91	1.5	-0°2	0.8	9.0-	7 •98	+0.46
Wal. Mts.	0.52	-0.92	2.36	+0.48	2.41	+0.54	. 8•0	9.0-	1.0	-0-3	7 •09	-0.80
Blue Mts.	0.72	09.0-	3.01	+0.77	3.04	+0.74	1.5	-0.3	1.4	-0-1	6.67	+0.51
Southern	1.54	-0.38	99*9	+3.43	5.04	+1.20	4.3	+0•8	200	-0°7	19.84	+4.35
Willamette	2.13	-1.98	13 • 99	+6.28	9.55	+1.04	6.7	-1+1	7.0	+0•2	39.37	+4.74
Area	1.06	-0.49	4.40	+1•68	3.89	+1.02	2.4	-0•2	1.9	-0.3	13,58	+1.67

P - Inches precipitation.

D - Inches departure from normal.

S. E. - Southeastern Oregon range lands, Harney and Malheur Counties.
S. C. - Southcentral Oregon range lands, Lake County and Klamath County, except the Cascade Mountains. N. C. - Northcentral Oregon wheat and range lands, Crook, Deschutes, Jefferson, Wheeler and part of

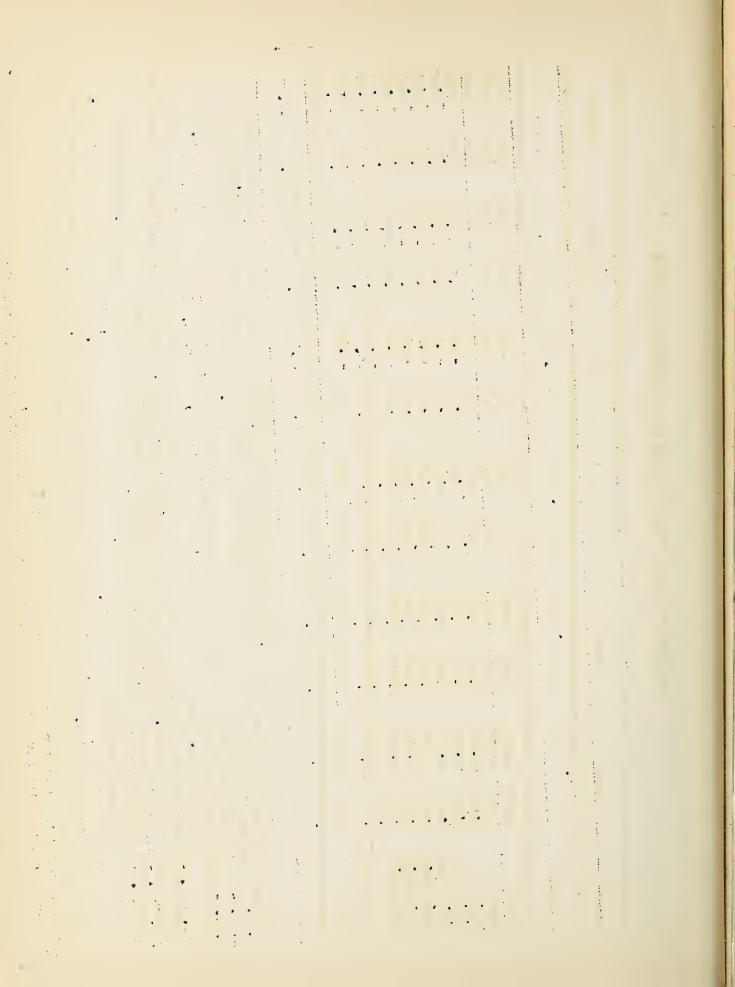
Grant Counties.

Col. Riv. - Columbia River area, wheat and range lands, Gilliam, Morrow, Sherman, Wasco and part of

Wal. Mts. - Wallowa Mountain area, forest and range lands, Wallowa and part of Baker County. Umatilla Counties.

Blue Mts. - The Blue Mountain forest and range area, Union and parts of Baker, Grant and Umatilla Counties.

Southern - Southern Oregon irrigated section, Jackson and Josephine Counties. Willamette - Parts of Polk, Benton, Yamhill, Washington, Lane and all of Linn, Marion, Clackamas and Multnomah Counties. Note: Data for the last two months shown above are preliminary only, as they are based on a few stations only. Data for earlier months have been corrected to include all the stations in Climatological Data for the area.



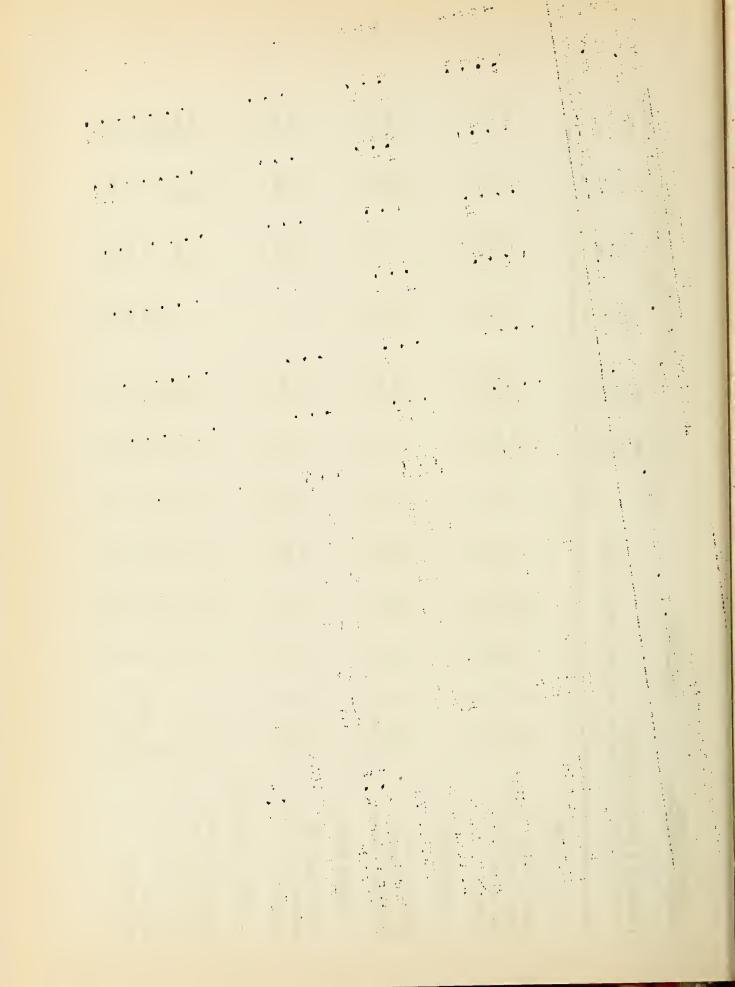
										-	8	-	•											
:	Yrs. of rec-				14	12	14	14	13	15	14	12	9	11	14	13	10		r	1 0	2 5	- 6	10	80
(Inches)	Avg.for past yrs.of record				9.6	9.6	6.8	12.3	8.2	5.1	7.1	10.4	11.4	6 •5	3.0	10.2	10.2		4.6	14.5		10.4	7.0	÷ ÷
INTS Depth	Two Years Ago 3-1-44)				6.4	8.2	4.0	7.4	1	4.8	3.8	10.1	7.1	4.2	2.9	•	9.4 4		•	7.4		9 6	4	4.3
VER MEASUREME Average Water	Une Une Iwo Month Year Years Ago Ago Ago 2-1-46)(3-1-45)(3-1-44				8•1	8•6	6.3	11.4	8.8	9•9	6.8	10.0	12.5	3. 6	2.2	14.2	10.7		4+6	10.4	, d	2 0	4.7	q8°0
SNOW COVER MEASUREMENTS 6 Average Water De	Une Month Ago (2-1-46)(岡			1	•		ı	- 8	1		1	15.4	1	e e	. 8	1			14.1	0 - 2	2 8	0.9	6.3
	Avg. Water Depth (In.)	I N A G	E G O N		10.1	8.8	7.3	13 •0	7.1		6.7	9 . 5	15.1		2 %	6.8	9.7		10.8	19.6	9.66	14.6	8.0	6.2
	Avg. Snow Depth (In.)	D R A	N O N		34.8 B	31.4 a	28.2 a	40.2 a	25.8 a	15.8 a	26.9 a	32.0 a	43.0 a	20.3 a	7.2 a	19.9 a	30e8 a		36.7	60.5	40.6	46.5	28.1	20.1
About	Date	M B I A	K E I		3-7	3-1	3-7	3-4	3-4	3-2	3-4	3-2	3-4	3-3	3-7	3-4	3-1		3-1	228	2-27	2-27	2-24	2-25
	Elev.	OLUI	SNA		6800	0089	0099	8600	6800	7000	2000	2000	6340	5200	2600	8200	7800		5950	2900	5375	5120	5100	4800
	e Burg	اد اد	표I 때I		56E	24E	26正	39E	39臣	53E	39E	54臣	2M	53E	55瓦	39臣	53E		36臣	35E	34 F	33号E	32E	34E
LOCATION	Twp. F	다 다	LOW		45N	43N	45N	44N	45N	42N	44N	43N	78	39N	29N	45N	42N		14S	158		168		218
i i	Sec.	ÞI			30	32	32	27	25	13	24	31	32	32	4	14	o,		16	21	24	19	23	33
	Oregon Number Sec. Twp. Range				Nev.	Neve	NCV.	Nev.	Neve	Nevs	Nev.	Nev.	Idaho	Nev.	Nev.	Neve	Nev		143	133	137	136	134	135
STREAM BASINS	(Primary & Secondary Oregon & Snow Courses) Number			OWYHEE RIVER	Big Bend	Fry Canyon	Gold Creek Ranger Sta.	Granite Peak	Lower Buckskin	Lower Jack Creek	Martin Creek	Rodeo Flat	South Mountain No.2	Taylor Canyon	Tremewan Ranch	Upper Buckskin	Upper Jack Creek	MALHEUR RIVER	Barney Creek	Blue Mountain Springs	Crane Prairie	Lake Creek	Rock Spring	Stinking Water

a - Telegraphic; subject to minor revision.
b - Estimated.

with a Common water with the , - - - . : • . . \$ t . . 4 ί :₁ ŗ.

\sim	vg.for Yrs. past of yrs.of rec-			8.4 10				9.1 7	10.8 9		18.2 2	5•4 2	₹•		18.2				8•8	18.7 7	
pth	₹ .		1	4.6 9.0			13.0 20				16.8 18		្ស		1648 18		13.0 20			13.5 18	
VER MEASUREMENTS Average Water Depth	One Trest Yes Ago A, -1-45)(3-		4.6	7.3			1		7.0			9•	5.4		19.7					16.8 1	
SNOW COVER MEASUREMENTS 6 Average Water De	One One Two Month Year Years Ago Ago Ago (2-1-46)(3-1-45)(3-1-44)		ı.	0 0 0			27.8	9.6	10.1	•			Ł		. 1	1		8.7		18.7	
1	Avg. Water Dopth (In.)		10.8	12 \$3	17.6		31.8	12.1	15.6		36.7	28 • 5	17 •4		36.7	28 •5	31.8	12.8	14.3	24.1	71
٦,	Avg. Snow Depth (In.)		36.7	44. 66 26. 0	45.6		75.2	36.9	51.3		9.8 • 2	73 •0	58.0		98.2	73 •0	75.2	41.2	40.3	75.6	000
About	Date	٠	3-1	2.28	3-1-0		2-26	2-28	2-27	,	3-2	3-5	2-28		3-2	3-2	2-26	3-1	3-1	2-28	
	Elev.		5950	5098	5100		7125	5430	5400		7480	7000	4250		7480	2000	7125	5340	4300	5850	0404
N.	Range		36E	36E	35是正		37E	40E	38E		45E	45E	47E		45E	45E	37E	37E	35E	41E	20 B
LOCATION	Sec. Twp.		148	128	103		78	118	88		48	4S	55		48	48	78	58		33	7 7
			16	9 %	34		18	32	1.8				22		16			ω.	24 & 25	88	
	Oregon		143	141	142		155	156	151B		183	183A	171		183	183A	155	188	221	186A	919
STREAM BASINS	(Primary & Secondary Oregon & Snow Courses) Number	BURNT RIVER	Barney Creek	Blue Mountain Summit	Tipton	POWDER RIVER	Anthony Lake	Dooley Mountain	Eilertson Meadows	IMNAHA RIVER	Aneroid Lake No. 1	Aneroid Lake No. 2	Coverdale	GRANDE RONDE RIVER	Aneroid Lake No. 1	Lake No.	Anthony Lake	Beaver Reservoir	Meacham	Moss Spring	10 1 30 to

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	Yrs. of rec-			2		6	. 60 ~		භ		S	ه <u>د</u>	22	OI OI	01,	30		83 4	H
	(Inches) Avg.for past yrs.of record			21.4		6.7	8 • 8		6 .		6. 9	6 . 55	8 4	8.2	14.4	5.7		14.2	•
				19.9		ະທຸ ແ	7.0		8		8.0	7.4	4.6	6.1	ထပ	200		14.4	0
MEASUREM	Average Water Depth One One Two Month Year Years Ago Ago Ago 2-1-46)(3-1-45)(3-1-44			15.3		4 • 9 ° 0 ° 0 ° 0 ° 0 ° 0 ° 0 ° 0 ° 0 ° 0 °	7.2		9.1		9.1	2°0	7.3	5.8	12.5	3.4		14.0	- - -
SNOW COVER MEASUREMENTS	Average One Or Month Ye Ago Ago (2-1-46)(3-1	E G E		27.1		10.2	9.6		12.4		12.4	7.45	0 0	10.7	16.1	8		35.8	•
	l, 1946 Avg. Water Depth (In.)	R A H		35.5		12.7	14 °3		14.8	• "	14.8	6 . 83	12.3	6. 9.7	22 22	8.3		red 15.7) • OT
	March Avg. Snow Depth (In.)	4I		93.7		33 55	40.3		44.8		44.8	20.6	44 •6	33.4	65.3	25 • 3		t Measured	μ Ψ Φ
	About Date	M B I		3-1		3-1	2 2 2 2		2-26	•	2-26	2-27	2-28	2-26	2-28	2-26		Not	7 - 7
	Elev	C O L U		5070		3925	4300 5070		5400		5400	4800	5098	5293	0009	5150		4830	onee
	ang e	원] 원]		38E		35 25 五 五 五 五	35E		29压		29E	30氏 47.4	36E	29年	33点形	31E		900	9) 4
LOCATION	Sec. Twp. Range	E OI		4N		NI 3S	11S 4N		48		4S	125	125	168	90 c	195 158		238	1 4
ğ	Sec			32		29	24&25 32		33		33		4-0	28	14	7 02		200	r N
	Oregon Number			212		222	221		241		241	246A	141	964	245	247B		321	Too
STREAM BASINS	(Primary & Secondary C & Snow Courses) N		WALLA WALLA RIVER	Tollgate	UMATILLA RIVER	Emigrant Springs	Meacham Tollgate	WILLOW CREEK	Arbuckle Mountain	JOHN DAY RIVER	Arbuckle Mountain	Beech Creek Summit	Blue Mountain Summit	Izee Summit	Olive Lake	Starr Ridge	DESCHUTES RIVER	Cascade Summit	olear lake

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								•	- 1	1 -													
	Yrs. of rec-		ಬ	ဆ င်	ဍ လ	63		80	ω		90	Ö		4	~ 2	6	ည	က	ന			9	
	(Inches) Avg.for past yrs.of record		27.9	4.7	7.8	5.1		39.5	14.0		10.3	2011		0.8	14.2	17.3	27.9	6.9	13.1			3.3	
ENTS	r Depth Two Years Ago (3-1-44)		20.2	4 5	5.6	3.1		25.2	10.2		4.	2		0.2b	14.4	14 •3	2005	3•4	6 •8			2.7	
MEASUREN	Average Water Depth te One Two tth Year Years o Ago Ago -46)(3-1-45)(3-1-44)		16+8	0 0	10.0	5.1		26.8	7.3		1 0	0		Trace	14 0	4.9	16.8	Trace	7.0			0.0	
SNOW COVER MEASUREMENTS	Average Water Depth One One Two Month Year Years Ago Ago Ago (2-1-46)(3-1-45)(3-1-44)		42.0	7.63	0 1	1		63.0	28•0		18.1	1 01		4.3	35.8	28•3	42.0	13.8	24.5			4.9	
	1, 1946 Avg. Water Depth (In.)		52 4	6.0	16.2	8•8		54.4	33.7		15.8	2007		5.0	red	35.2	52.4	17.4	32.8	N G E		4.1	
,	March Avg. Snow Depth (In.)	·	128.0	20.4	46.1	28.6		190.9	82.7		47 •0	•				92.1	128.0	44 •3	79.2	RAI		13 •3	
:	About		2-28	2-28	2-27	2-28		3-4	3.5		2-25	0		2-28	Not	2-28	2-28	2-28	2-28	O R O		3-1	
	Elev.		4755	4540	6300	4800		2600	3700		3400			2325	4880	4500	4755	2730	2990	E R I		4900	
	Range		73E	19E	26E	25E		9E	8崇臣		82E	4		7E	3 9	EI,	75年	3.Z	7E	HI		13E	
LOCATION	Twp.		138	125	195	158		38	33		55	3		98	233	238	138	118	138			298	
3	Sec. Twp. Range	_	24	25	; r-1	ω		9	22		35	CTDET		23	<u>-</u>	77	54	28	14			25&26	
	Oregon Number	Contid	351	344	965	342		452	451		592	100		551	321	522	351	553	552			942	
STREAM BASINS	(Primary & Secondary Oregon & Snow Courses) Number	DESCHUTES RIVER (Cont'd.)	Hogg Pass	Marks Creek	Snow Mountain	Tamarack	SANDY RIVER	Phlox Point-Mt.Hood	Still Creek	CLACKAMAS RIVER	Clackamas Lake	todatile little	WILLAMETTE RIVER	Breitenbush	Cascade Summit	Champion	Hogg Pass	Marion Forks	Santiam Junction		SILVER LAKE	Silver Greek	b - Estimated.

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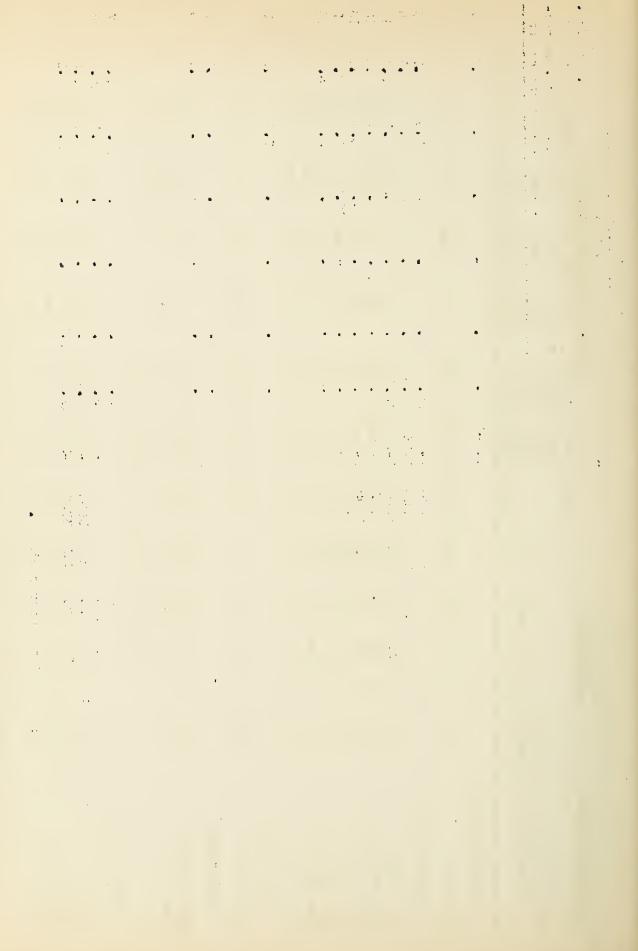
						About	About March	1, 1946	Aver	Average Water Depth	r Depth	(Inches)	
(Primary & Secondary Oregon & Snow Courses) Number	Oregon Number Sec. Twp. Range	Sec	Twp.	Range	Elev.	Date	Avg. Snow Depth (In.)	Avg. Water Depth (In.)	One Month Ago (2-1-46)(One Year Ago (3-1-45)	One Two Year Years Ago Ago 3-1-45)(3-1-44	Avg.for past yrs.of record	Yrs. of rec-
CHEWAUCAN RIVER													
Mill Creek	922	٦	34S	17E	6200	6200 Abt.3-1	33.0	9 ° 6 t	1	ည	4.2	6.3	6
HARNEY BASIN											•		
Deer Creek	973	17	368	26E	6670	2-25	25 •0	8.1	ත ව	. 1	7.0	7.55	ĸ
Hart Mountain	971		368	25E	6350	2-26	2.0	9•0	6•0	•	α α	4	တ
Idylwild Park	961A		202	31E	5200	2-25	32.1	8.6	5.5	4.3	4.3	20	11
Izee Summit	964	28	165	29至	5293	2-26	33 .4	6	10.7	5.8	6.1	8	l 유
Rock Spring	134	23	185	32E	5100	2-24	28.1	8.0	0.09	4.7	4.8	7.0	101
Snow Mountain	965	~	198	26正	6300	2-27	46.1	16.2	1	10.0	5.00	7.8	~
Starr Ridge	247B	20	158	31E	5150	2-26	25 •3	8 • 3	8•0	3.4	5.0	2.4	10
WARNER LAKE			,		,								
Camas Creek	9117	വ	398	21E	5720	2-28	39.5	13.0	9.3	8	7.6	8	82
GUANO LAKE						· ·							
Bald Mountain Guano Creek	Nev• 972	17	45N 36S	21E 25E	6720 6480	2-28	10.7	3.1	4.6	3.5	83 4 4 4	4.9	9 2
			N N	\S	C 0 A	STI	RAI	N A G					
UMPQUA RIVER						·.							
Champion	522	12	238	1E	4500	2-28	92 .1	35.2	28.3	4.9	14.3	17.3	2
Diamond Lake	743	53	278	E	5315	2-28	83.8	31.8	26.1	9.º7	10.6	16.4	တ
Goolaway Gap	726	32	328	3W	3000	2-25	4.4	1.8	1.3	0.0	1.0	1.2	2
Goolaway Mountain	7215	30	328	3W	3730	2-25	19 • 4	7.3	2.1	0.2	2.7	3.0	2
a - Telegraphic; subject to minor	subjec	t to	minor	revision	ione								

SNOW COVER MEASUREMENTS

LOCATION

STREAM BASINS

a - Telegraphic; subject to minor revision.



		· · · · · · · · · · · · · · · · · · ·	rec- ord		2	27	14	11	7	7	4	13		9		6	ω		21	19	14	6	16	ໝ	16	19	13	18	ග	~	19
	(s	r Yrs.																													
	(Inches	Avg.for past	yrs.of record		4.8	34.2	21.2	12.2	1.5	3.0	16.2	10.0	47 •2	9.8	5.8	3.7	13.6		34.2	0.2	21.2	10.2	1.7	3.7	8.0	4.3	10.0	6.3	7.5	47 *2	4.2
ENTS	Depth	Two	Ago (3-1-44		2.2	21,7	15.5	8.9	1.0	2.7	14.4	11.1	1	8.7	5.0	1.7	11.9		21.7	0.5	15.5	6.1	1.2	•	7.0	5.1	11.1	5.8	7.8		9.9
MEASUREM	Average Water	One Year	Ago Ago Ago 2-1-46)(3-1-45)(3-1-44		0.7	24.2	15 •2	4.5	000	200	7.2	3.7	32.1	0	₽ • 0	Trace	8 • 5		24.2	0.0	15.2	5.1	0.0	4	0°2	0.0	3.7	0.0	3.7	32.1	0.2
SNOW COVER MEASUREMENTS	Avere	One	Ago (2-1-46)		2 05	42.2	24.8	16.8	1.3	2.1	18.1	11.0	1	11.8	5.1	2.4	14.6		42.2	0.3	24.8	13.9	1.0	2•0	10.8	1.8	11.0	11.0	11.0	1	3.5
SNO	1, 1946	Avg. Water	Depth (In.)		5.0	63.2	29.9	16.8	1.8	7.53	20.4	13.3	68.4	17.4	8.2	4.0	14.9		63.2	0.3	59.9	17.6	6•0	5.4	11.0	3.3	13.3	11.8	12.7	68•4	4.6
	March 1	Avg. Snow	Depth (In.)		15.9	148.4	75.8	47.2	4.4	19.4	53.5	38.7	155 • 4	46.0	21.3	10.7	41.7		148.4	1.9	75.8	52.7	5.0	13.5	37 •0	12.0	38.7	28.5	39.9	155 • 4	14.0
	About		Date		2-28	2-26	2-25	2-28	2-25	2-25	2-27	2-26	2-26	2-28	2-24	3-2	2-58	*	2-26	2-28	2-25	2-28	2-28	2-28	2-28	2-28	2-26	2-28	2-28	2-26	2-28
			Elev.		4400	6018	0009	4865	3000	3730	0009	4900	6450	3720	4630	3500	0069		6018	4300	0009	4760	4187	5200	4200	4150	4900	4533	4960	6450	4200
N.			Rang e		7W	6E	5臣	4E	310	3W	211	3 E	至9	4民	2E	3至	F		E	12E	5五	8E	7E	118	6E	7 <u>3</u> E	3 E	7E	5E	图9	EE
LOCATION					418	318	368	378	328	328	₹08	398	318	308	40S	338	40\$		318	368	368	275	348	47N	34S	338	398	33S	378	318	363
Ħ			Sec. Twp.		17	19	30	23	32	30	თ.	15	œ	30	17	21	~		19	22	30	21	34	30	56	22	15	 4	11	æ	90
		Oregon	Number		7216	831	722	725	726	7215	727		838	7219	728	7218	7213		831)	722	834					723		835	838	
STREAM BASINS		(Primary & Secondary C		ROGUE RIVER	Althouse	Annie Spring	Billie Creek Divide	Fish Lake	Goolaway Gap	Goolaway Mountain	Grayback Peak	Hyatt Prairie Reservoir	Park Headquarters	Silver Burn	Siskiyou Summit	South Fork Canal	Wagner Butte	KLAMATH LAKE BASIN	Annie Spring	Beatty 2/	Billie Creck Divide	Chemult No. 1	Chiloquin 2/	Crowder Flat (Calif.)	Crystal 2/	Fort Klamath 2/	Hyatt Prairie Reservoir	Kirk 2/	Lake of the Woods No.1	Park Headquarters	Pelican 2/

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Yrs.	reo-		6	- 55	13	2	- α	17		હ્ય	4	15	6
→ 4	yrs.of record		0.9	7.3	1.9	8	22.6	2.2		8	0.9	7.1	8 •0
r Depth Two Years	Ago (3-1-44)		5.5	5.0	0.3	*	14.6	2+1		7.6	5.5	5.5	ŧ
VER MEASUREME Average Water e One th Year	Ago (3-1-45)		4.9	0 0 0	0.0	5.6	13.9	0.0		8	4.9	8	5.6
SNOW COVER MEASUREMENTS 6 Average Water De One One Tw Month Year Yea	Ago (2-1-46)		7.9	10.8	7.5	1	33 .0	7 °0		\$ 63	7.9	10.8	1
	Depth (In.)		11.1	0°6	0.4	8.7	39 0	6.2		13.0	11,1	0.6	8.7
About March Avg. Snow	(In.)		32.4	30.0	4.0	32 •8	105.1	16.0		39.5	32 •4	30.0	32.8
About	Date		2-28	2-28	2-28	2-27	2-28	2-58		2-28	2-28	2-28	2-27
į	• ABTG		5320	5504	4800	2600	5350	4600		5720	5320	5504	2600
N	e Surau		16E	16E	14E	16E	7 <u>2</u> E	11E		21E	16E	16E	16E
LOCATION	-dwp		388	378	358	40S	328	318		398	388	378	40S
	292	(•p	N	33	22	4	22	~		Ŋ	o2	33	4
Oregon	namer sec 1wp. n	(Cont	811			837	826			911A	811		837
dary	1	BASIN	•	ما	21				NI		`	्या	
(Primary & Secondary Oregon	a cinomonia a	KLAMATH LAKE BASIN (Cont'd.)	Quartz Mountain	Quartz Mountain 2/	Richardson Ranch	Strawberry	Sun Mountain	Yamsey 2/	GOOSE LAKE BASIN	Camas Creek	Quartz Mountain	Quartz Mountain	Strawberry

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1/ The following organizations cooperate in the Oregon snow survey work:

STATE

Idaho Cooperative Snow Surveys
Nevada Cooperative Snow Surveys
Oregon Agricultural Experiment Station
Oregon State Engineer and corps of State Watermasters
Oregon State Highway Engineers

FEDERAL

Department of Agriculture
Forest Service
Soil Conservation Service
Department of Commerce
Weather Bureau
Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Fish and Wildlife Service
Geological Survey
Indian Servico
National Park Service
War Department
Army Engineer Corps

PUBLIC UTILITIES

Eastern Oregon Light and Power Company Portland General Electric Company The California Oregon Power Company

MUNICIPALITIES

City of Corvallis City of LaGrande City of The Dalles

IRRIGATION DISTRICTS

Associated Ditch Companies
Central Oregon Irrigation District
Deschutes County Municipal Improvement District
Grants Pass Irrigation District
Jordan Valley Irrigation District
Lakeview Water Users Incorporated
Medford Irrigation District
Ochoco Irrigation District
Rogue River Irrigation District
Talent Irrigation District
Vale-Oregon Irrigation District
Warmsprings Irrigation District

PRIVATE CORPORATIONS

Amalgamated Sugar Company

